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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/677,604	10/02/2003	Yam Mo Wong	P/4076-59	8937
2352	7590	03/03/2006		
OSTROLENK FABER GERB & SOFFEN 1180 AVENUE OF THE AMERICAS NEW YORK, NY 100368403				EXAMINER
				EDMONDSON, LYNNE RENEE
ART UNIT		PAPER NUMBER		
		1725		

DATE MAILED: 03/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/677,604	WONG ET AL.
	Examiner	Art Unit
	Lynne Edmondson	1725

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 23 December 2005.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-18 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) 14-18 is/are allowed.  
 6) Claim(s) 1-13 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 02 October 2003 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.  
 5) Notice of Informal Patent Application (PTO-152)  
 6) Other: \_\_\_\_\_.

**DETAILED ACTION**

1. The indicated allowability of claims 9-13 is withdrawn in view of the newly discovered reference(s) to a wire loop having a base and neck with an extension of wire from the base and an extension of wire running substantially horizontally from the base at substantially the same height as the top of the base toward another wire bond and wire diameter in relation to loop height. Rejections based on the newly cited reference(s) follow.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 10 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Manansala (USPN 6962282 B2).

Manansala teaches a wire loop having a base and neck with an extension of wire from the base and an extension of wire running substantially horizontally from the base at substantially the same height as the top of the base toward another wire bond (figure 14 and col 9 lines 7-19). The highest point of the loop is about 2 mils (col 10 lines 18-22).

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4. Claims 10-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Fujisawa (US 2005/0189567 A1).

Fujisawa teaches a wire loop having a base and neck with an extension of wire from the base and an extension of wire running substantially horizontally from the base at substantially the same height as the top of the base toward another wire bond (figures 2 and 5). The wire has a thickness of about 1 mil (25 microns, 0.98 mils) and the highest point of the loop is less than 2 mils (less than 50 microns, figure 2 and paragraph 51).

5. Claims 1-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Ano (USPN 6815836 B2).

Ano teaches a method of wire bonding by forming a bond at a first bonding point and moving the tool away from the first bond, forming a kink and loop in the wire having a curved portion wherein the tool is moved substantially vertically upwards and toward the second bonding point (figures 4A-4F, col 5 lines 18-65 and col 6 lines 30-37). The wire diameter is less than 1 mil (~25 micron or .98 mil) and at approximately the same height as the first bonding point (figures 2 and 3 and col 3 lines 33-44). The wire loop comprising a ball bonded base portion, a neck portion, a curved portion which twists in a direction substantially transverse to the vertical axis and a wire extending in a horizontal direction at substantially the same height as the top of the base portion (figures 3 and 6).

***Response to Arguments***

6. Regarding applicant's previous argument (7/19/05) that Ano does not teach bonding wherein the wire is moved and coupled to the first bond, this limitation no longer applies. The most recent amendment teaches the same movement without bonding the wire thereto. Regarding the argument that the kink is formed after the second bond at the first bonding point, this limitation has been removed with the most recent amendment.
7. Regarding applicant's argument that Ano does not teach a kink in the wire, see section 306, which shows a curve in the wire, and section 307, which shows a bend in the wire.
8. Therefore the 102 rejection of claims 1-9 as anticipated by Ano is restated.
9. Regarding applicant's argument that Ano does not teach an extension of the wire from the base portion, which has an extended, end thereof; see section 306 which shows this extension. Regarding applicant's argument that the wire bond extending from the neck points away from the bond rather than toward it, there are two separate sections, 306, which forms the extension and 307 which extends horizontally away from the neck toward another bond. See figures 2 and 3. It is noted that the second bond is not a part of the claimed structure.
10. Therefore the 102 rejection of claims 10-13 as anticipated by Ano is restated.

***Allowable Subject Matter***

11. Claims 14-18 are allowed.

***Conclusion***

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne Edmondson whose telephone number is (571) 272-1172. The examiner can normally be reached on Monday through Thursday from 6:30 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne Edmondson  
Primary Examiner  
Art Unit 1725

LRE